East Clark Co. Water District Water Quality Report 2021

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Mailing Address: P.O. Box 112 Winchester, KY 40392 Meeting location and time: 118 Hopkins Lane 3rd Monday, monthly at 7 PM

East Clark Co. Water District purchases water from Winchester Municipal Utilities. Winchester treats surface water from Kentucky River Pool 10 and Carroll Ecton Reservoir. An analysis of the susceptibility of the water supply to contamination indicates that this susceptibility is generally moderate. However, there are a few areas of high concern. Several highway bridges, a segment of railroad, areas of row crops, three active Superfund Sites, three waste generators and/or transporters and impaired streams occur in the immediate area of the Kentucky River intake. Row crops in the immediate area increase the likelihood that pesticides and fertilizers may be introduced into the water supply. Superfund sites in the area indicate the presence of land that has been contaminated by hazardous waste. Numerous permitted operations and activities and other potential contaminant sources of moderate concern are within the watershed that cumulatively increase the potential for the release of contaminants within the area. The complete Source Water Assessment Plan is available for review at Winchester Municipal Utilities.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Information About Lead:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Your local public water system is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

Some or all of these definitions may be found in this report:

Maximum Contaminant Level (MCL) - the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) - the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

Parts per million (ppm) - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a single penny in \$10,000. Parts per billion (ppb) - or micrograms per liter, (μ g/L). One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10.000.000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow. Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

This report will not be mailed. Copies are available in our office. If you would like a copy mailed to you, please contact our office.

To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. Copies of this report are available upon request by contacting our office during business hours.

Regulated Contamina	nt Test R	esults	East Clark	Water District							
Contaminant			Report	Range	Date of	Violation	Likely Source of				
[code] (units)	MCL	MCLG	Level	of Detection	Sample		Contamination				
Disinfectants/Disinfection Byproducts and Precursors											
Chlorine	MRDL	MRDLG	1.21								
(ppm)	= 4	= 4	(highest	0.33 to 1.95	5 2021	No	Water additive used to control microbes.				
			average)				meroves.				
HAA (ppb) (Stage 2)			58				5				
[Haloacetic acids]	60	N/A	(high site	35 to 57	2021	No	Byproduct of drinking water disinfection				
			average)	(range of individual si	ites)		disinfection				
TTHM (ppb) (Stage 2)			68				5 1				
[total trihalomethanes]	80	N/A	(high site	36 to 78	2021	No	Byproduct of drinking water disinfection.				
			average)	(range of individual si	ites)		disinfection.				
Household Plumbing	Contami	nants	•		•	•	•				
Copper [1022] (ppm)	AL=		0.0845								
sites exceeding action level	1.3	1.3	(90 th	0.0054 to 0.16	7 Jul-19	No	Corrosion of household plumbing systems				
0			percentile)				Systems				

Regulated Contaminant Test Results Winchester Municipal Utilities										
Contaminant			Report	Range	Date of	Violation	Likely Source of			
[code] (units)	MCL	MCLG	Level	of Detection	Sample		Contamination			
Radioactive Contamin	ants				•	•				
Combined radium	5	0	1.11	1.11 to 1.11	2021	No	Engaine of matrimal damagita			
(pCi/L)							Erosion of natural deposits			
Inorganic Contaminan	its				-	•	•			
Barium							T '''			
[1010] (ppm)	2	2	0.028	0.028 to 0.028	2021	No	Drilling wastes; metal refineries; erosion of natural deposits			
Disinfectants/Disinfection Byproducts and Precursors										
Total Organic Carbon (ppm)			1.63							
(measured as ppm, but	TT*	N/A	(lowest	1.14 to 2.86	2021	No	Naturally present in environment.			
reported as a ratio)			average)	(monthly ratios)						
*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance.										
Other Constituents										



